MEMORANDUM FOR: C/SPS-7/17 14 JUL 1978

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SG-78/23 14 June 1978

MEMORANDUM FOR: Chief, Information Management Staff '

25X1A FROM:

Systems Group

SUBJECT:

Continuation of Contract for Software

Development Support to IMS

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I. INTRODUCTION

You asked me to determine whether we should seek to retain software development assistance to Systems Group (SG) on a sole-source contract beyond FY 1979.

There are really three questions to be answered:

- 1) Does SG'need the assistance of contractors for software development support? (This necessitates an evaluation of SG's personnel capabilities in relation to the anticipated workload in the 1980's.)
- 2) Does SG need help in particular? (This requires an evaluation of the contractual resource as it exists today.)
- 3) Can an sole-source contractual procurement be justified? (This is a separate question which must be raised, since a continued contract is presumed to be possible only through a sole source procurement, which the Government discourages.)

While many unknowns affect the picture substantially, (particularly the delineation of the CRAFT effort), I have come to the conclusion that the answer to all three of the above questions is an unqualified "Yes". Let's look at each of them individually.

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II. DOES SG NEED CONTRACTUAL ASSISTANCE?

This is not an historical analysis, so it is sufficient to say that for the past 15 years SG has relied heavily on o provide external contractual support for a significant 25X1A portion of its resources and expertise. The annual contract was absolutely essential to the successful development of the ALLSTAR system, which, it may be argued, is the 25X1A best large-scale, on-line information retrieval system ever developed by the Agency.

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If we include its managers, SG's currently has 37 full-time and 3 part-time systems analyst/programmers, who are being assisted by 10 full-time and 1 part-time professionals.

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In these terms, is providing about 20 percent of the available software development manpower. With an average of about 3.5 years experience on our particular applications (and many more years of general ADP experience), people constitute a highly valuable resource.

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is slated to receive 5 additional analyst/programmer positions in FY 1979, its first increment in many years. There is, however, no prospect for further augmentation beyond these five within the foreseeable future, given the Directorate's general drawdown. We therefore no longer enjoy the option of replacing contractual assistance with new staff personnel.

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It is ironic that this unexpected circumstance has occurred at this particular juncture in SG's history, when SG/ would be able, for the first time in its many years of existence, to move decisively at last to replace personnel with staff personnel by the end of FY 1979, if it were directed to do so. For, while finding and recruiting personnel to replace technical expertise would be no easy matter, SG has finally become master of its own house.

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During the <u>mid-1970's (1973-7)</u> impressive talent has been 25X1A brought into SG. Twenty-three full-time and 3 part-time personnel have been added during those years to the 14 people who joined the Group before 1973 and remain aboard today. Among these new personnel, 18 have college degrees, including 5 with Masters degrees and 2 with PhD's. Twelve have brought with them professional ADP experience from elsewhere. Meanwhile, the 14 "old-timers" have deepened their expertise considerably through continued experience and an enlightened

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IMS training program. Fifteen of our personnel have earned the Certificate of Data Processing. Furthermore, with the assistance of the "E panel" promotion mechanism, we have been able since 1974 to keep good people within a very competitive job market.

The point is, we now have a highly professional group of people at the service of the Directorate who are fully competent to maintain our current systems and to create many forms of new systems. We are, in particular, no longer dependent upon to maintain and enhance ALLSTAR. no longer has to "break our people in" with respect to ALLSTAR. By the end of FY 1979, we expect to have all of our teleprocessing applications running on CICS (the upgrade of underlying software for on-line systems) and to have all the major functional subsystems of ALLSTAR, including the Archives function, operational and maintainable by staff personnel -- as the result of concentration on these tasks during the coming year.

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Looking to the future, however, and to COMET/CRAFT in particular, a new ingredient of skills will be required in 25X1A which does not exist at present -- either among our or among the current contingent. This brings us 25X1A staff or among the current to a discussion of the foreseen workload.

> The projected SG, workload is quite formidable -bevond its workyear capacities even with the benefit of our

25X1A contingent.

> personnel now work in the which has a full-time staff of 16 and a part-time staff of 3, for a total workyear capability of about 28. The section's estimated workload for FY 1979-1981, however, is about 38 workyears per year, which is to say about 11 over its capability -- including the contract. (One professional is slated to move to the Division and Staff next year.) This estimate includes only 3 workyears on COMET and the Headquarters side of CRAFT in FY 1979, but 14 and 12 workyears on those projects in FY 1980 and 1981 respectively. The rest of the section's analyst/ programmer personnel will be busy maintaining ALLSTAR, providing ALLSTAR interfaces to DORIC/W and other systems, and providing a minimal capability for unprogrammed development (for document declassification and the contemplated compre-

hensive central document collection, for example.) Another consideration here is that new special expertise will be needed to assist in that part of the COMET design effort which envisions 25X1A on-line document analysis, which can best be provided by a contractor like

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is similarly 25X1A The Division and 25X1A pressed, disallowing any relief to the through a transfer of personnel. With a current staff 25X1A of 15 (no part-time personnel), it is now developing 13 projects and maintaining 25. While all of the developmental projects are expected to be completed by the end of FY 1979 at the latest, these must be maintained and, if past experience is any guide, more projects will be continually demanded of the section (for example, to provide some of the functions described in the 25X1A management information system proposed by to convert GICS systems, to combine currently operational OTS systems, to do 25X1A further work for or possibly to expand the type of minicomputer project being developed for SE Division to other stations). The section is also faced with the prospect of converting all of its NIPS projects to another generalized data base management system over the next five years, an estimated 25 workyear effort which will probably be best undertaken at the rate of 5 workyears per year. Field CRAFT is the big question mark, but should, conservatively, require 3, 6, and 8 workyears respectively in <u>FY 19</u>79, 1980, and 1981. All in all, even with the move of 25X1A professional to this section (for assistance to NIPS) and with the increment of 5 additional analyst/programmer positions in FY 1979, the section is expected to confront a workload which will exceed its capability by 4, 11, and 14 workyears respectively in FY 1979, 1980, and 1981. Aside from the one professional 25X1A to assist with NIPS, no other personnel would work in this section. (Field CRAFT is likely to involve minicompute 25X1A minicomputers is reluctant to configure and program for legal reasons.) which The only way the section can handle its additional workload, 25X1A presuming that the CRAFT requirement will be upon us, would be to 25X1A cut back drastically on projects, accept new projects less readily, or take on another software service contract. 25X1A The which contains 4 analyst/ programmers among its personnel and exists to support general

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The programmers among its personnel and exists to support general needs of the other two sections and of the sections and 25X1A

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sections, also faces a heavy workload; but its tasks do not merit separate discussion in relation to the contract question.

It should be noted that although the above figures do include room for new requirements, the allowance for such requirements and the figures in general are considered conservative by SG/

25X1A The conclusion is inescapable. SG/ definitely needs contractual assistance if it is to accomplish the tasks expected of it. If we do not attempt to secure a support contract in FY 1979 - 1981, it would be tantamount to saying that we can handle a growing workload, including COMET and CRAFT, without any additional help beyond the 5 new positions we are acquiring, which would be grossly misleading. See Graphs A and B.

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25X1A III. DOES SG NEED ASSISTANCE? 25X1A It is taken for granted that if we want help we will have to acquire it under a sole-source contract. The reason 25X1A is that would almost certainly not win a competitive pro-curement. The company would most likely be underbid by companies "buying-in" or offering lower-quality personnel resources which could not be evaluated as such prior to their 25X1A coming aboard. Thus, the and sole-source issues are inter-25X1A There are several reasons why it would be nice to end the sole-source contract situation: 1) CIA wants to limit sole-source contracting because such procedure is vulnerable to attack from our oversight bodies, especially since it has been of such longstanding duration. 2) The DDO is most concerned that the compartmentation of our information systems be protected. As highly-skilled computer professionals, personnel have the inherent capability to gain access to any of the data in 25X1A our central computer files should they choose (against authorization) to do so. 25X1A 3) Any contractor help, is very costly -- approximate which is much higher than for a staff professional. when these professionals are housed with us as they are, the price we pay does not include administrative expenses and overhead, such as office space, secretarial help, the acquisition of clearances, etc. 4) SG/ analyst/programmers would like to "declare their independence" As stated above, there was once 25X1A an era in which personnel predominated and received most of the choice jobs - to the chagrin of our staff personnel. Actual resentment today, however, is insignificant, with amicable project team efforts predominating. The above drawbacks are overshadowed, in my opinion, by 25X1A the numerous advantages which the contract affords us:

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1) The Directorate's data bases are sensitive. While it would be best not to have any contractor

point. In contrast, competitive procurement, under a classified RFP, aside from being highly problematical to prepare, could not help but significantly increase our vulnerability to penetration.

- 2) As mentioned above, the ten professionals assigned to SG have an average of 3.5 workyears of experience on our ALLSTAR project. They not only know the intricacies of the IMS central records system, but are familiar with ALLSTAR's highly complex programming structures. This represents a very substantial investment which would be lost if the contract were to be terminated. Any new contractual personnel would have to be trained extensively, so much so that training could be expected to cancel out nearly a year of their effort when their trainee time and our trainer time is taken into account.
- would be best qualified to assist us with the on-line analysis requirement of COMET, due to its extensive experience with our records system and ALLSTAR system.
- has always provided quality professionals to SG. allows us to count on acquiring the particular skills we need at the time that we need them.
- 5) The long-term association with has worked extremely smoothly, without friction. as a company has taken an interest in our problems and been flexible in responding to our needs. Its personnel have gone out of their way to help, working overtime at inconvenient hours, never using "It's not in our contract!" as an excuse for not performing a requested task.

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6) SG, does most of its work on equipment, using systems software. While other contractors (and our staff personnel) are familiar with this equipment and software, is most familiar with them. It has several proprietary software manipulative "tricks" at its disposal to attack programming problems most expeditiously. Furthermore is probably the only 7 company that can really help us with NIPS.

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7) In this same connection, we have received the added "fringe benefit" of using our contractors as a valuable source of information on new developments in the field of ADP. In concrete terms, this has stimulated SG/ adoption of structured programming and advanced documentation techniques which have significantly improved our methods of work.

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8) does a particularly good job on taskoriented work, freeing us from excessive managerial
overhead. successfully manages its own people.
It does most of the necessary training and orientation
of the replacement personnel it brings aboard.

IV. CAN SG JUSTIFY A SOLE-SOURCE PROCUREMENT?

It being my conclusion that we need contractual help and that contractual help is the best help available, at possibly the least true cost when all factors (particularly the training of a new contractor) are considered, the final question 25X1A is whether we can justify continuation of the contract under sole-source procurement.

I think we can, primarily on the basis of sources and methods. Some of the other arguments above might be used, but while they are straight-forward and rational, they unfortunately can be expected to carry little weight with those who are concerned more with appearances than with cost/effectiveness considerations and matters of necessity. We would, in addition, emphasize the fact that much highly-classified Agency ADP developmental work has been undertaken with contractual assistance.

25X1A Our FY 1979 request for contractual assistance would not be presented on the basis of phase-out -- over one, two, three, or any other number of years. We expect to be just as busy in 1980 - 1982 as we are today, and while we might prefer to be rid of "outsiders" altogether by some future date, it just does not appear that personnel limitations will permit 25X1A us that option. Besides, it should be acknowledged that a provides us with a pool of resources that can be adjusted in size and skill composition as required, permitting a manning flexibility which cannot be obtained with staff personnel alone. It can be expected, for example, to provide personnel having special expertise to assist the COMET and Headquarters CRAFT efforts on a timely basis. Whether or not 25X1A the contingent could someday be reduced would be left to a

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· Approved For Release 2001/03/06 : CIA-RDP84-009332000500130002-3

future year when such reduction could be judged on its merits. (In the near future, we could use an augmented team; but I do not advocate requesting one for FY 1979.)

The tasks immediately before us, prior to 1 July, are to:

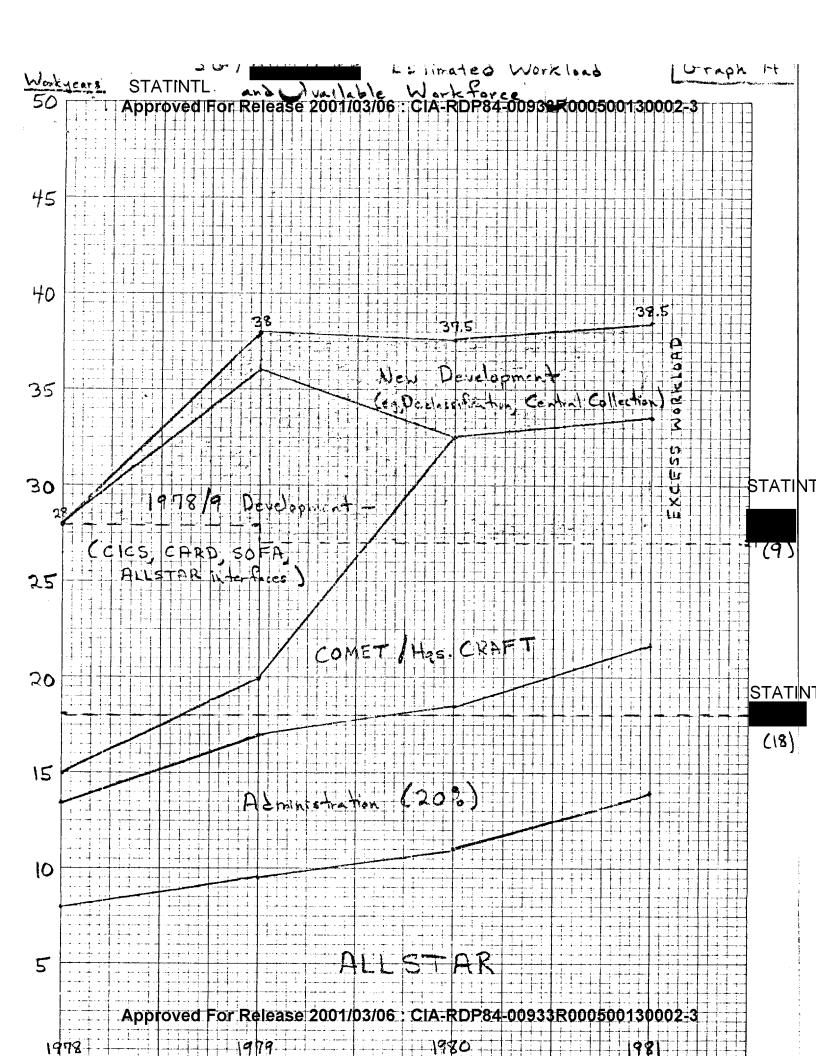
- 1) Complete a Statement of Work (modifying the one we already have in draft to include some work on COMET in FY 1979).
- 2) Forward this Work Statement to OL, through ODP, with a justification for sole-source procurement.

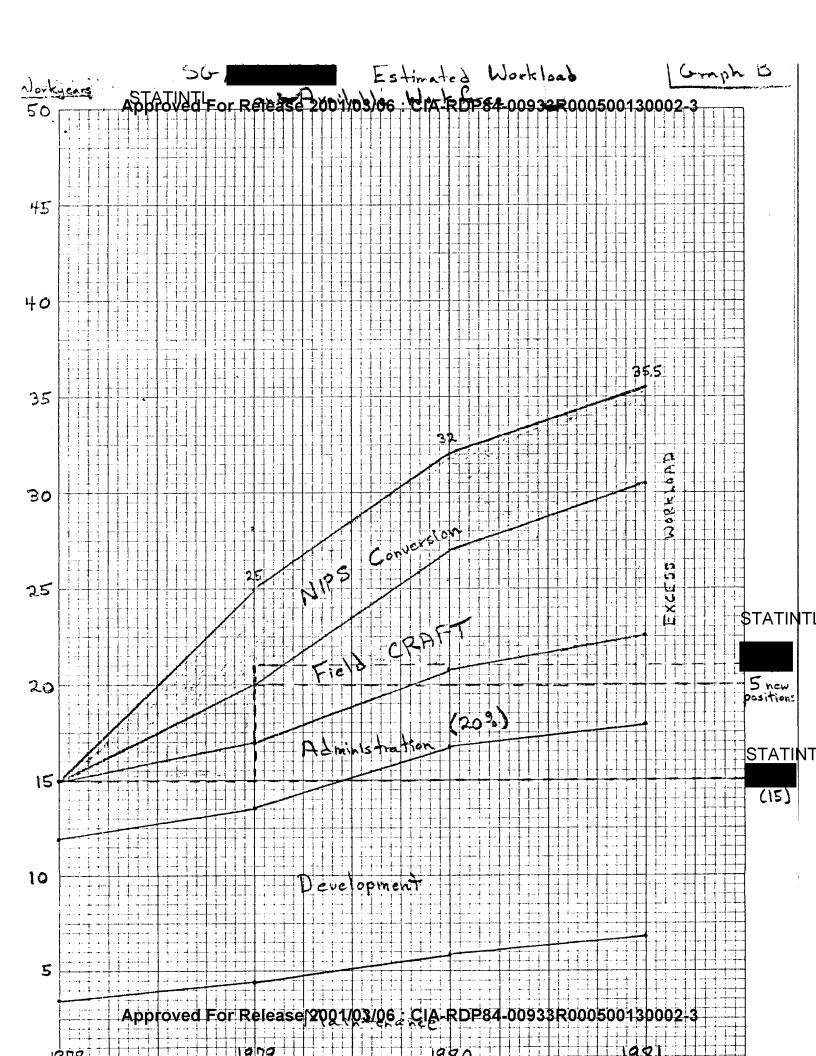
In sum, we should move decisively to secure continuation of the contract for the indefinite future.

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Answers

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I don't see any resources STATINTL replace 10½ in the DO. We are currently hard pressed to find the 2-3 people to help develop the requirements paper and look at a prototype system for CRAFT. If we had excess resources we'd hardly be going thru the agony of preparing a RFP to possibly replace STATINTL our own

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I don't see how that determination can be made until:

- A concise CRAFT requirements paper for both HDQ and the field has been developed and coordinated.
- These requirements are evaluated relative to SAFE to determine functional commonality and implementation timing.
- The availability of SAFE OCR/ODP resources to determine the impace on SAFE of absenting applicable CRAFT requirements. about
- 3. I can relate to and fully support all the reasons set forth by the DO to retain their contractors. However, we have presented the same arguments to OL re-STATINTL garding PROPANE and the most they would agree to was a gradual phase-out of sole source support. If OL supports the DO intention to sole source indefinitely, its inconceivable that they would penalize us by requiring competitive bids. STATINTL

would almost certainly not DO's comment win a competitive procurement is probably overstated. While charges are not cheap, proposal award does not automatically go to the lowest bidder. Technical and management qualifications are equally important.

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17 July 1978

MEMORANDUM FOR: Director of Data Processing

STATINTL

FROM

Jr.

Deputy Director for Processing

SUBJECT

Software Development Support for IMS

REFERENCE

: Memo for Chief, Information Management Staff (IMS), from STATINTL

Subject: Continuation of IBM Contract Support

for Software Development Support to IMS

- 1. You asked two specific questions in regard to the referenced memorandum.
- Question #1: Can we and should we offer a commitment of a specific level of ODP resources to work on DDO problems?

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Answer: We have in fact maintained a small continuing effort in support of the for many years. I have never been able to understand why IMS does not support the and we do.

I have made offers to IMS people on numerous occasions to come to us for applications support. There is clearly a reluctance to do this.

I believe that we should be more involved in IMS application work, at the expense of other things, if necessary. We will never get any ODP people overseas into legitimate ADP work otherwise.

3. Question #2: Due to similarities in CRAFT/COMET shouldn't CRAFT/COMET be persued as a subset of SAFE?

Answer: No! The IMS approach is to design to an existing software/hardware system which we support in the Special Center. Safe is having enough trouble without trying to assimilate these requirements. In any case, a real battle would have to be won to wrestle this responsibility away from IMS.

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argument on procurement undermines the credibility of IMS on other issues. I do not follow this argument on applications development. Large numbers of staff people (almost 250) have access to the Special Center on a continuing basis. The equipment and maintenance personnel of four different vendors are represented in the Special I plan to open a dialogue with Mr. on these Center. STATINTL There is a real inconsistency in the practice of issues. competing the procurement of equipment on the one hand, and obtaining application support on a sole source basis. A consistent policy is needed so that Processing can better support the Special Center. Either security is or is not a STATINTL problem.

cc: C/MS

DD/P (file DDO with reference)

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fite - DDO

14 July 1978

MEMORANDUM FOR: Director of Data Processing

THROUGH : Deputy Director for Applications, ODP

FROM : Associate Deputy Director for

Applications, ODP

SUBJECT : Coordination of Software Development

Between ODP and the DO

REFERENCE: Your Memo, dtd 28 June 1978, subj: CRAFT

A. Background

- 1. To obtain a proper understanding of current DO plans to retrieve and remotely view electrical messages in FY 79, it is helpful to understand the relationship and timing between the existing COMET (Collection of Operational Messages Electrically Transmitted) and the proposed CRAFT system.
- 2. COMET is designed to capture electrical message traffice forwarded by the CDS system. It is viewed as an archival storage system, not a dissemination system. The initial phase of COMET has been operational since April of this year. This current procedure involves the use of our AMPS software running in the Center to identify and hold DO traffice transmitted from CDS. These messages are periodically transferred from disk to magnetic tape and hand carried to the Special Center where they are added to the COMET file. Retrieval from the COMET file is currently limited to the production of printed copies at their central document retrieval facility.
- 3. The next phase of COMET, scheduled for the spring of '79, calls for a direct link from CDS to the Red/Blue machine in GC47. There are essentially two reasons behind this requirement. They wish to eliminate the manual nature of the current tape based message transfer and they would prefer, for security reasons, to keep DO messages

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out of the Center. This CDS to GC47 link will require three elements of support:

- On RJE link from CDS to GC47. OC has not given the DO a firm date on the completion of this link.
- ° CDS software will have to be modified to support the interface to GC47. Again, no date as to when OC will have this available.
- ° GC47 resident software <u>similar</u> to AMPS to receive the CDS traffic.
- 4. DO software personnel requested and were given source copies of the ODP developed AMPS software to determine its applicability in satisfying their needs. They concluded that the package, as it stands, was not directly usable. The reasons were based primarily on the fact that whereas AMPS was designed to hold messages for a variety of ODP users, the DO software would only be adding messages to a single repository (COMET). In addition, there are destinctions between the interface software we are using, JES3, and JES2, which is planned for GC47.
- 5. DO has utilized some elements of our software to create their own CDS processing package. This software has been written (2-3 man months of effort) and is awaiting the necessary link and JES2 so it can be tested. They have coordinated this effort with SPD personnel who will be bringing up MVS/JES2 for them.
- 6. CRAFT entered the picture about a year and a half ago. Initial CRAFT plans called for machine assisted dissemination of messages (mail file capability) to CRTs in user areas in FY 79. No plans were established as to how the necessary software would be developed however. DO placed a requirement in the ODP terminal survey to have some 40 terminals available for CRAFT in '79. To take advantage of these 40 CRAFT terminals, it was also decided to expand COMET so that it would provide users on-line access to the COMET files by the end of FY 79.
- 7. Consequently, there were two different facilities relative to the DO plan for remote viewing of electronic messages in FY 79.
 - a. A real time, mail box, type of facility which would disseminate CDS messages immediately (CRAFT).

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 A historical or archival facility to view older messages (COMET).

B. Current Plans

As far as I can tell, their current plans are as follows:

1. COMET

- a. Pursue the direct CDS interface, as described above, developing their own interface software.
- b. Because of the budget difficulties with CRAFT and the uncertainty of acquiring the 40 CRAFT/COMET terminals in FY 79, COMET will now concentrate on developing semi-automated indexing and abstracting support for the COMET abstractors. On-line document review and retrieval is being postponed. There are no current plans to have the COMET developed software support the CRAFT message dissemination function.
- 2. CRAFT Despite budget setbacks, the DO would like to push ahead. I believe the ability of CRAFT sponsored message dissemination or review and retrieval in FY 79 is doubtful. Resources to develop the software have not yet been identified in the DO. ODP has made no plans to support this HDQs aspect of CRAFT.
- C. Answers to Your Specific Questions

The sections below are keyed to your questions in the referenced memo.

la. As mentioned above, the COMET interface to CDS is being developed separately by the DO. They have reviewed our AMPS software and decided that their circumstances warrant a separate development. In regard to the similarities between COMET and SAFE, there were apparently some discussions between DO and SAFE representatives when COMET was getting started. While functional similarities were evident, the DO felt that based on the budgetary problems SAFE was having at the time and the projected implementation date of 1981, the DO could not wait for SAFE. COMET has not been a large effort for the DO. There are currently two people assigned to the project.

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- 1b. Aside from the 'AMPS like' CDS interface software, no retrieval software is being developed by COMET, CRAFT or ODP. With ODP assistance, DO has looked at some Interim SAFE software (COLTS and OLTA), but no decisions have been made as to their applicability.
- lc. However, it is doubtful that they would allocate any of the limited terminals we can make available to them in FY 79 to COMET or CRAFT.
- 2. DO has not developed any plans to establish a return link from their machines to CDS as we plan to do via FAMPS.
- 3. There is some limited duplication in the development of their 'AMPS like' capability. Since the effort has been small and we have done everything we could to provide a copy of our systems, I don't feel there is anything more we can or should do.

When the DO gets to the point of developing message retrieval software, either through COMET or CRAFT, a close analysis of existing Interim or planned SAFE capabilities will be necessary to preclude duplication. However, it should be pointed out that while we can and will make any effort to inform them of the availability and applicability of existing or planned software, we are only in a position to advise. They will continue to carefully guard their prerogative to design and implement applications oriented software according to their perceived functional and timing requirements.



Distribution:

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ROUTING AND RECORD SHEET					
SUBJECT: (Optional)					
			EXTENSION	NO.	ODP # 8-1147
FROM:				OUP #-	
Chief, IMS, DDO				2 f	June 1978
TO: (Officer designation, room number, and building)	DATE		OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)	
	RECEIVED FORWARDED				
Director, ODP		·	am	Danny	:
3				1	you will recall from a
Eo		18 Ful	62	conve	rsation we had several ago, the DDO after see-
2. EO 3. C/MS 4. DD/A/ODP 5. DD/P/ODP 6. C/SPS		1/27		ing to	he impact of the posi- cuts he was taking
4.		 		advis	ed me that he would rt a proposal for STA
DD/A/ODP		-		conti	nuation of the sole- e contract if
5.				I cho	se to make such a pro-
po/P/ODP					. He said for a variety asons he would prefer to
6.	ļ	7/12			t of the relationship but in light of the
7.		1//			ion cuts he would goSTA
,		·		along	with continuing it.
8.					sked to look this matter. He pre-
				pared	the attached memorandum I share with you. I
9.				have	decided to seek to
				conti	nue the sole-source STA Paper
10.				work	designed to obtain objective will soon be
11.			-		coming.
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File ICRAFT

Approved For Release 2001/03/06 (CIA)RDPB4-00933R000500130002-3

ODP-8-5073 21 April 1978

25X1A

MEMORANDUM FOR:

Chief, Information Systems

Analysis Staff, DDA

25X1A

FROM

Associate Deputy Director for

Applications, ODP

SUBJECT

: Word Processing Overseas Task Group

25X1A

25X1A

- 1. During the course of the initial meeting of the Group on 17 April, Mr. asked each of the participants for any comments or recommendations regarding subsequent direction and activities. My observations follow.
- 2. In relation to the advisability of trying to coordinate the short range overseas word processing (WP) requirements with the forthcoming CRAFT system, I agree with the analysis of Mr. that CRAFT has simply not progressed to the point where even tentative hardware specifications can be identified. Conceptually, CRAFT will provide WP capabilities to the field. Unfortunately, that facility is several years away. What is needed is an interim solution until CRAFT is available.
- 3. I would suggest that before dedicated WP devices are selected and procured, the Task Group make a determination that the impending OC AFT facility cannot be used as an interim solution to the WP requirement. I realize that the primary purpose of AFT is to automate the processing of message traffic, however, it will provide a capability to fully edit originating and terminating messages. If there is some excess capacity in the planned configuration or if that configuration can be expanded to support an additional WP load, it should be considered.
- 4. The new standard soft copy terminal which ODP will shortly be procuring may also be a reasonable candidate to

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to provide this interim facility. This CRT will in essence embody the facilities of a small computer system. It will contain a programmable microprocessor, memory and limited peripheral storage devices. With appropriate software it could provide extensive WP functions. These intelligent terminals will be TEMPEST approved and should be available in early 1979.

5. To better facilitate the evaluation of the new ODP terminal, I suggest that the Chief of 25X1A ODP's Engineering Division, be added to the Task Group.

25X1A Mr. is anxious to lend his expertise to the solution of your problem. He can be reached on x5113. I plan to continue my participation in the Group until I can determine the extent of my potential contribution.

25X1A

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INTERNAL TINCLASSIFIED CONFIDENTIAL SECRET ONLY ODP # 8-6/6 SU 25X1A Processors Overseas (C) FROM: EXTENSION NO. 25X1A Assistant for Information, DDA DATE 7D-02, Hqs. 5117 7 April 1978 TO: (Officer designation, room number, and DATE building) OFFICER'S COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment. RECEIVED FORWARDED 1-2 Dane - I have 25X1A Director of Data Processing the oppress after Bot DD/A/ODP attends a meeting or two 1/12 EO EVI G D to find aut what it is all about, it should subunt a recommendation 5. on whether we need to continue the ODD regard who it should be a Please 7. dans lesson find out love this relates to comes CAFT and DDO CRAFT. 25X1A (x6685) on 4/11. 10. 11. 12. 13. STATINTL 14 15. FORM

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6 April 1978

MEMORANDUM FOR: Director of Data Processing

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FROM

Assistant for Information, DDA

SUBJECT

: Word Processors Overseas (C)

1. (C) The Information Systems Analysis Staff has been asked to assume the role of initiating and coordinating actions related to issues dealing with the application of word processors to Agency overseas activities. We have accepted this role and will serve as a focal point.

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2. (C) I have conferred with Mr. . C/ISAS, and Ms. Word Processing Coordinator, and asked for the formation of a task group to study the several issues involved in using word processing equipment at our overseas installations.

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3. (U) Please forward the name of your representative , C/ISAS. We will plan a meeting of the Task Group for sometime this month.

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E-2 IMPDET CL BY 008564